Attomey Docket No. 960296,99497 Applicant: Caspi et al. Filing Date: 11 July 2003 Serial No. 10/617,453 Art Unit: 163 Date of Office Action: 19 April 2007 Date of response: 19 October 2007 Examiner: Juliet C. Switzer

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the aboveidentified application.

Listing of Claims:

1. (Currently amended) A method for assessing predisposition of a human subject for predisposition to a mental disorder phenotype having an association with an at risk allele of a gene that encodes monoamine oxidase A enzyme, the association being conditioned by a pathogenic environmental risk factor status condition, the at risk allele obaracterized by a low activity level of the enzyme in the brain of the subject selected from the group consisting of a conduct disorder, violent behavior and antisocial behavior, the method comprising the steps of:

determining whether the subject carries one or more copies of an et-riek allele a
two- or three-repeat allele of a variable number tandem repeat polymorphism within a gene
encoding human monoamine oxidase A enzyme, wherein a locus of the gene is amplified by
SEO ID NO:1 and SEO ID NO:2:

determining whether the subject has experienced, or is at risk of experiencing, the environmental risk factor childhood maltreatment; and

concluding that the subject is predisposed to the phenotype if the subject carries the at-risk two- or three-repeat allele and has experienced, or is at risk of experiencing, the environmental risk factor childhood maltreatment.

- (Currently amended) The method of Claim 1 wherein the subject carries the atrisk allele two or three repeat allele.
- (Currently amended) The method of Claim 1 wherein the subject has
 experienced, or is at risk of experiencing, the environmental risk factor childhood maltreatment.

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4.-5. (Canceled)

6. (Currently amended) The method of Claim 1 wherein the pathogenie environmental risk feeter childhood maltreatment is selected from the group consisting of exposure to psychological trauma[[,]] and exposure to psychosocial stress; exposure to an unbealthy diet, an infectious agent, exposure to a toxic agent, experience with a pharmacological secont, a medical trauma, and an injury.

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- 7.-8. (Canceled)
- (Original) The method of Claim 1 further comprising the step of counseling the subject to pursue or avoid a particular type of employment.
- (Currently amended) The method of Claim 1 further comprising the step of counseling the subject to avoid the environmental risk factor childhood maltreatment.
- 11. (Original) The method of Claim 1 further comprising the step of prescribing a therapy selected from the group consisting of psychological therapy and pharmaceutical therapy.

12.-26. (Canceled)